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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,347	10/02/2000	Dieter Weidhaus	WEIDHAUS ET AL I 3543	
75	90 07/13/2005		EXAM	INER
COLLARD & ROE, P.C.		DOROSHENK, ALEXA A		
1077 Northern I	Boulevard			
Roslyn, NY 11576			ART UNIT	PAPER NUMBER
•			1764	

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	 	A				
		Application No.	Applicant(s)			
Office Action Summary		09/677,347	WEIDHAUS ET AL.			
		Examiner	Art Unit			
		Alexa A. Doroshenk	1764			
The MAILING DA	NTE of this communication app	ears on the cover sheet with the c	orrespondence address			
THE MAILING DATE O - Extensions of time may be ava after SIX (6) MONTHS from the - If the period for reply specified - If NO period for reply is specified - Failure to reply within the set o	PF THIS COMMUNICATION. silable under the provisions of 37 CFR 1.13 e mailing date of this communication. above is less than thirty (30) days, a reply ed above, the maximum statutory period w or extended period for reply will, by statute, the later than three months after the mailing	IS SET TO EXPIRE 3 MONTH(6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED date of this communication, even if timely filed,	s will be considered timely. the mailing date of this communication.			
Status						
1) Responsive to co	mmunication(s) filed on 26 Ap	ril 2005.				
2a) This action is FIN						
3) Since this applica	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
		x parte Quayle, 1935 C.D. 11, 45				
Disposition of Claims						
<u> </u>	re pending in the application		•			
	Claim(s) <u>1-10</u> is/are pending in the application. 4a) Of the above claim(s) <u>9 and 10</u> is/are withdrawn from consideration.					
	☐ Claim(s) 7 is/are allowed.					
	☑ Claim(s) <u>1-6 and 8</u> is/are rejected.					
	e subject to restriction and/or	election requirement.				
Application Papers						
	s objected to by the Examiner.					
			vominor			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
			· · · · · · · · · · · · · · · · · · ·			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §			10.00.01.01.01.01.01.02.			
12) Acknowledgment is	s made of a claim for foreign r	oriority under 35 U.S.C. § 119(a)-	(d) 07 (5)			
	* * c) None of:	71011ty under 33 0.3.C. § 115(a)-	(a) or (r).			
	pies of the priority documents	have been received				
		y documents have been received				
	from the International Bureau		and transfer dage			
		f the certified copies not received	١.			
Attachment(s)		_				
 Notice of References Cited (ID) Notice of Draftsperson's Pate 	PTO-892)	4) Interview Summary (I	PTO-413)			
3) 🔀 Information Disclosure Stater	ment(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Date 5) Notice of Informal Pa	e tent Application (PTO-152)			
Paper No(s)/Mail Date <u>닉/고(</u>	4/85	6) Other:				
. Patent and Trademark Office FOL-326 (Rev. 1-04)	Office Acti	on Summary Bod	of Denouble (Mail Day 20070707			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Lord et al. (5,810,934).

With respect to claims 1 and 3, Lord et al. discloses a reactor comprising:

a pressure supporting enclosure (110);

an inner reactor tube (111) within the enclosure (110), made of material which exhibits high transmission for thermal radiation (col. 2, lines 18-22);

an inlet (123) at the top of the enclosure (110);

an inlet (125) of tubular form (see figure 2) which injects a silicon bearing gas (col. 35, line 64- col. 36, line 3) and dividing the reactor into a heating zone (118) where heat in increased by quartz walls (111) (col. 27, line 66- col. 28, line 3) and above that a reaction zone (120);

a gas-distribution device (112, 115, 143) at the bottom of the enclosure (see figure 6);

an outlet (124) at the top of the enclosure (110);

an outlet (114) at the bottom of the enclosure (110);

a heater device (129) with an energy supply (col. 44, lines 20-24); and

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wherein the heater device (129) is a radiation source for thermal radiation arranged cylindrically outside of the inner reactor tube (111) without being in direct contact with the inner tube (111) (see figure 2) and designed such that is used thermal radiation to heat the silicon to a reaction temperature (col. 27, line 51- col. 28, line 12).

With respect to claim 2, Lord et al. further discloses wherein a space between the inner tube (111) and the enclosure (11) is provided with insulation (16).

With respect to claims 4 and 5, Lord et al. discloses wherein the heater can emit radiation with a variety of wavelengths (col. 2, lines 11-17) meeting the wavelengths of 0.4 μ m to 900 or 300 μ m.

With respect to claim 6, Lord et al. discloses wherein the materials of construction include silicon carbide (col. 2, lines 18-22).

With respect to claim 8, Lord et al. discloses wherein the reactor is made of inert material or a component coated with an inert material (col. 2, lines 18-2 and col. 34, lines 18-24).

Allowable Subject Matter

3. Claim 7 is allowed.

Response to Arguments

4. Applicant argues that Lord's zone 122, which examiner indicated in the rejection as a reaction zone, is not a reaction zone since no reaction is taking place.

The examiner agrees and upon further consideration of the reference has now indicated zone 120 as the upper reaction zone. While both zones 118 and 120 have reactions as well as heating taking place, the instant claims use the open transitional

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language "comprising" which does not preclude the reference from having more elements than those of the instant claims. Additionally, Lord et al. does disclose two distinct zones divided at the point of inlet 125 (see figure 2) and therefore Lord et al. continues to read on the instant claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexa A. Doroshenk whose telephone number is 571-272-1446. The examiner can normally be reached on Monday - Thursday from 9:00 AM - 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexa A. Doroshenk Examiner

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July 7, 2005

ALEXA DOROSHENK PRIMARY EXAMINED